



PTO/SB/21 (08-03)  
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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/674,657
Filing Date	September 29, 2003
First Named Inventor	Billy Wayne Crue
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	SEAG 63203

### ENCLOSURES (Check all that apply)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input checked="" type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Response to Missing Parts/Incomplete Application<br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance communication to Technology Center (TC)<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):<br>- Form PTO/SB/08A<br>- Form PTO/SB/08B<br>- return postcard |
|--|---|--|

Remarks

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Alan G. Towner Pietragallo, Bosick & Gordon
Signature	
Date	January 28, 2004

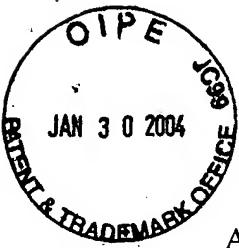
### CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Alan G. Towner		
Signature		Date	January 28, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/674,657  
Applicant : Billy Wayne Crue et al.  
Filed : September 29, 2003  
Title : PERPENDICULAR MAGNETIC RECORDING  
HEAD HAVING A FLUX FOCUSING MAIN POLE  
TC/A.U. : n/a  
Examiner : n/a  
Docket No. : SEAG 63203  
Customer No. : 35810

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

January 28, 2004

Sir:

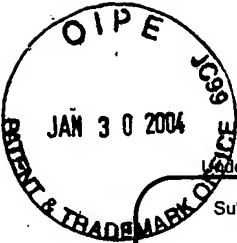
Pursuant to the provisions of 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants submit the attached Forms PTO/SB/08A and PTO/SB/08B for consideration of the cited references during prosecution of the subject application. Copies of the cited references can be found in the file corresponding to Serial No. 09/809,118, filed March 15, 2001 which is relied upon under 35 U.S.C. § 120.

This Statement is filed solely for the purpose of complying with the pertinent rules of the Office and is not intended to be a substitute for an independent evaluation by the Examiner of the art cited or an independent search by the Examiner, and no representation of any nature is made or intended by the filing of this Statement.

Respectfully submitted

Alan G. Towner  
Registration No. 32,949  
Pietragallo, Bosick & Gordon  
One Oxford Centre, 38th Floor  
301 Grant Street  
Pittsburgh, PA 15219  
Attorney for Applicants

(412) 263-4340



Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of

4

**Complete if Known**

Application Number	10/674,657
Filing Date	9/29/2003
First Named Inventor	Billy Wayne Crue
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	SEAG 63203

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 2,927,163	03-01-1960	Brower	
		US- 3,805,291	04-16-1974	Sakurai	
		US- 3,813,766	06-04-1974	Brock et al.	
		US- 4,001,890	01-04-1977	Kayser	
		US- 4,078,300	03-14-1978	Lazzari	
		US- 4,138,702	02-06-1979	Magnenet	
		US- 4,219,855	08-26-1980	Jones Jr.	
		US- 4,404,609	09-13-1983	Jones Jr.	
		US- 4,423,450	12-27-1983	Hamilton	
		US- 4,438,471	03-20-1984	Oshiki et al.	
		US- 4,441,131	04-03-1984	Osanai	
		US- 4,541,026	09-10-1985	Bonin et al.	
		US- 4,546,398	10-08-1985	Toda et al.	
		US- 4,575,777	03-11-1986	Hosokawa	
		US- 4,613,918	09-23-1986	Kanai et al.	
		US- 4,631,612	12-23-1986	Shiiki et al.	
		US- 4,639,810	01-27-1987	Sakai	
		US- 4,649,449	03-10-1987	Sawada et al.	
		US- 4,652,956	03-24-1987	Schewe	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		GB 1344890	01-23-1974	Int'l Business Machines Corp.		
		JP 56087218	07-15-1981	Toshiba Corp.		
		JP 59195311	11-06-1984	NEC Corp.		
		JP 59231720	12-26-1984	Matsushita Electric Ind. Co. Ltd		
		JP 2001-148107A	05-29-2001	Matsushita Electric Ind. Co. Ltd.		

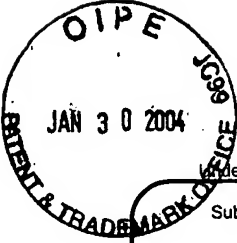
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SignatureDate  
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
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**Complete if Known**

Application Number	10/674,657
Filing Date	9/29/2003
First Named Inventor	Billy Wayne Crue
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	SEAG 63203

Sheet **2** of **4**

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 4,672,494	06-09-1987	Furuya et al.	
		US- 4,703,382	10-27-1987	Schewe et al.	
		US- 4,731,157	03-15-1988	Lazzari	
		US- 4,742,413	05-03-1988	Schewe	
		US- 4,763,215	08-09-1988	Gueugnon et al.	
		US- 4,839,761	06-13-1989	Gatzen	
		US- 4,860,139	08-22-1989	Hamilton	
		US- 4,873,599	10-10-1989	Sueoka	
		US- 4,931,886	06-05-1990	Mallary	
		US- 4,943,882	07-24-1990	Wada et al.	
		US- 4,974,110	11-27-1990	Kanamine et al.	
		US- 4,985,792	01-15-1991	Moir	
		US- 5,016,342	05-21-1991	Pisharody et al.	
		US- 5,027,246	06-25-1991	Numazawa et al.	
		US- 5,068,959	12-03-1991	Sidman	
		US- 5,073,836	12-17-1991	Gill et al.	
		US- 5,196,976	03-23-1993	Lazzari	
		US- 5,225,953	07-06-1993	Wada et al.	
		US- 5,241,430	08-31-1993	Janz	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner Signature		Date Considered	
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Sheet 3

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Filing Date	9/29/2003
First Named Inventor	Billy Wayne Crue
Art Unit	n/a
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Attorney Docket Number	SEAG 63203

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		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,305,516	04-26-1994	Imazeki et al.	
		US- 5,372,698	12-13-1994	Liao	
		US- 5,430,589	07-04-1995	Moir et al.	
		US- 5,606,478	02-25-1997	Chen et al.	
		US- 5,668,689	09-16-1997	Schultz et al.	
		US- 5,687,046	11-11-1997	Mathews	
		US- 5,738,927	04-14-1998	Nakamura et al.	
		US- 5,796,557	08-18-1998	Banell et al.	
		US- 5,801,910	09-01-1998	Mallary	
		US- 5,812,350	09-22-1998	Chen et al.	
		US- 5,864,450	01-26-1999	Chen et al.	
		US- 5,920,979	07-13-1999	Nepela et al.	
		US- 5,942,342	08-24-1999	Hikosaka et al.	
		US- 5,991,126	11-23-1999	Hayashi et al.	
		US- 5,995,341	11-30-1999	Tanaka et al.	
		US- 5,995,343	11-30-1999	Imamura	
		US- 5,996,045	11-30-1999	Lee et al.	
		US- 6,063,512	05-16-2000	Osaka et al.	
		US- 6,163,442	12-19-2000	Gill et al.	

**FOREIGN PATENT DOCUMENTS**

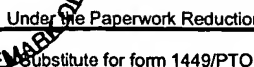
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Sheet	4	of	4
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Application Number	10/674,657
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First Named Inventor	Billy Wayne Crue
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	SEAG 63203

## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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Filing Date 09/29/2003

First Named Inventor Billy Wayne Crue

Art Unit n/a

Examiner Name n/a

Sheet 1

of

1

Attorney Docket Number SEAG 63203

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		KHIZROEV ET AL., "Considerations in the Design of Probe Heads for 100 Gbit/in <sup>2</sup> Recording Density", IEEE Transaction of Magnetism, Vol. 3, No. 5, Sept. 1997, pp. 2893-2895.	
		TOIGO, "Avoiding A Data Crunch", Scientific American, May 2000, pp. 58-61, 64-67 and 70-74.	

Examiner Signature		Date Considered	
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